

caGrid Development Monthly Technical Status Report – August 2011

This report covers the progress made in the ongoing development of caGrid under Statement of Work 28XS097 during the month of August 2011 and has been prepared following the requirements of section 4.1.3 of that S.O.W.

Issues Resolved

The following issues were moved into the “resolved” status in the caGrid Jira tracker during the period of August 1st to August 31st. Version numbers of “caGrid 1.5” refer to the next release of caGrid which supports SHA 2 certificates; Version numbers of “caGrid 1.6” refer to a future release.

Issue Type	Key	Summary	Resolution	Affects Version/s
New Feature	CAGRID-83	Investigate impact of NCI 2009 techstack to caGrid	Fixed	General Investigation, caGrid 1.6
Task	CAGRID-120	Investigate use of bundles for service deployment and how this might effect the skeleton.	Won't Fix	caGrid 2.0
Task	CAGRID-268	Investigate SAML 2.0 with Apache CXF	Won't Fix	
Sub-Task	CAGRID-358	CAGRID-268 Investigate community patch of WSS4J Library to Support SAML 2.0	Won't Fix	
Sub-Task	CAGRID-359	CAGRID-268 Investigate WSS4J support for SAML 2.0	Won't Fix	
Task	CAGRID-408	Investigate SAML 2 and WS-Security	Won't Fix	
Task	CAGRID-494	Define all needed grid service URLs in the target grid serviceURLs.properties file	Fixed	caGrid 1.6
Task	CAGRID-531	Make various projects test against a Derby DB instead of requiring a live MySQL instance	Won't Fix	caGrid 1.6
Sub-Task	CAGRID-532	CAGRID-531 Make dorian do tests with Derby DB	Won't Fix	caGrid 1.6
Sub-Task	CAGRID-533	CAGRID-531 Make GTS do tests with Derby DB	Won't Fix	caGrid 1.6
Sub-Task	CAGRID-534	CAGRID-531 Make CDS do tests with Derby DB	Won't Fix	caGrid 1.6
Sub-Task	CAGRID-535	CAGRID-531 Make GME do tests with Derby DB	Won't Fix	caGrid 1.6

Sub-Task	CAGRID-536	CAGRID-531 Gridgrouper to test with Derby DB	Won't Fix	caGrid 1.6
New Feature	CAGRID-565	XMIDatamapper issues	Duplicate	caGrid 1.3
New Feature	CAGRID-567	Upgrader for cagrid_metadata extension 1.4 to 1.5	Duplicate	caGrid 1.5
New Feature	CAGRID-594	Upgrader for Data Services from 1.4 to 1.5	Duplicate	caGrid 1.6
Sub-Task	CAGRID-620	CAGRID-540 Perform mock upgrade of CVRGrid from 1.3 to 1.5	Fixed	caGrid 1.5
Sub-Task	CAGRID-632	CAGRID-540 GME Unit Test: MMSAbstractBaseTestCaseBase.testMetdata	Fixed	caGrid 1.5
Task	CAGRID-675	Improve caGrid Ivy repository use	Won't Fix	caGrid 1.6
Sub-Task	CAGRID-724	CAGRID-723 Technical Project Plan Update for July 2011	Fixed	Sprint 2011_07_04-2011_07_15, Sprint 2011_07_18-2011_07_29
Sub-Task	CAGRID-729	CAGRID-728 Technical Status Report for July 2011	Fixed	Sprint 2011_07_04-2011_07_15, Sprint 2011_07_18-2011_07_29
New Feature	CAGRID-750	Upgraders for SDK 4.0 data services from 1.3 and 1.4 to 1.5	Fixed	caGrid 1.3, caGrid 1.4, caGrid 1.5
New Feature	CAGRID-751	Upgraders for SDK 4.1 data services from 1.3 and 1.4 to 1.5	Fixed	caGrid 1.3, caGrid 1.4, caGrid 1.5
New Feature	CAGRID-752	Upgraders for SDK 4.2 data services from 1.3 and 1.4 to 1.5	Fixed	caGrid 1.3, caGrid 1.4, caGrid 1.5, caGrid 1.6
Sub-Task	CAGRID-759	CAGRID-758 Remove metadata 1.2 to 1.5 upgrader	Fixed	caGrid 1.5
New Feature	CAGRID-765	Data Service Upgrade tests from 1.4 to 1.5	Fixed	caGrid 1.5
Sub-Task	CAGRID-782	CAGRID-752 Create SDK 4.2 data services with caGrid 1.3 and 1.4	Fixed	caGrid 1.5
Sub-Task	CAGRID-783	CAGRID-753 Create SDK 4.3 data services with caGrid 1.3 and 1.4	Fixed	caGrid 1.5

New Issues Identified

The following issues were added to the Jira tracker during the period of August 1st to August 31st. Note that the term “issue” is somewhat generic in Jira, and encompasses bugs, new features, tasks, etc.

Issue Type	Key	Summary	Status	Affects Version/s
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Improvement	CAGRID-764	Update the design of the gridgrouper membership search display of GAARDS-UI	Open	
New Feature	CAGRID-765	Data Service Upgrade tests from 1.4 to 1.5	Closed	caGrid 1.5
New Feature	CAGRID-766	WS-Enumeration extension upgraders from 1.3 and 1.4 to 1.5	Open	caGrid 1.3, caGrid 1.4, caGrid 1.5
New Feature	CAGRID-767	WS-Enumeration extension upgraders from 1.4 and 1.5 to 1.6	Open	caGrid 1.4, caGrid 1.5, caGrid 1.6
New Feature	CAGRID-768	Support for JBoss 5.1.x running wsrf grid services	Open	caGrid 1.6
Improvement	CAGRID-769	Backport Tomcat 6 Support to caGrid 1.4	Open	caGrid 1.4
Sub-Task	CAGRID-770	CAGRID-769 Backport code changes for Tomcat 6 support from Trunk to 1.4	Open	caGrid 1.4
Sub-Task	CAGRID-771	CAGRID-769 Backport build-deploy script changes for Tomcat 6 support from Trunk to 1.4	Open	caGrid 1.4
Sub-Task	CAGRID-772	CAGRID-769 Fix caGrid Transfer under Tomcat 6	Open	caGrid 1.4
Sub-Task	CAGRID-773	CAGRID-769 QA of all caGrid core services under Tomcat 6	Open	caGrid 1.4
Sub-Task	CAGRID-774	CAGRID-769 Update installer to deploy Tomcat 6	Open	caGrid 1.4
New Feature	CAGRID-775	Support for JBoss 5.1 in caGrid 1.4	Open	caGrid 1.4
Sub-Task	CAGRID-776	CAGRID-775 Create JBoss 5.1.x zip with pre-packaged WSRF	Open	caGrid 1.4
Sub-Task	CAGRID-777	CAGRID-775 Resolve issues with JNDI tree when WSRF is deployed to JBoss 5.1.x	Open	caGrid 1.4
Sub-Task	CAGRID-778	CAGRID-775 Integration tests for all caGrid core services under JBoss 5.1.x	Open	caGrid 1.4
Sub-Task	CAGRID-779	CAGRID-775 QA of all caGrid core services under	Open	caGrid 1.4

		JBoss 5.1.x		
Sub-Task	CAGRID-780	CAGRID-775 Update installer to deploy JBoss 5.1.x	Open	caGrid 1.4
New Feature	CAGRID-781	Add exposed validateQuery operation to Introduce generated Data Services	Open	caGrid 1.4
Sub-Task	CAGRID-782	CAGRID-752 Create SDK 4.2 data services with caGrid 1.3 and 1.4	Closed	caGrid 1.5
Sub-Task	CAGRID-783	CAGRID-753 Create SDK 4.3 data services with caGrid 1.3 and 1.4	Closed	caGrid 1.5
Bug	CAGRID-784	Introduce shouldn't display extensions which are flagged as "deprecated" and "should be removed"	Open	caGrid 1.5, caGrid 1.6

Releases of the caGrid Software

No releases of the software were made during the reporting period.

Presentations, Documentation Updates, Community Communication

The Knowledge Center and caGrid development team continue close collaboration to facilitate solid community support and feature request gathering. The teams have worked together to identify additional potential performance improvements in the software and mitigate issues related to binary data types (CLOBs) under certain query and database configurations. The caGrid 1.5 development grid with SHA 2 certificates has been created and a community announcement regarding it has been drafted. The dev team is awaiting approval of CBIIT to go ahead with the formal public announcement.

Outstanding Issues Being Actively Worked

Numerous issues are being actively worked by the development team, as identified in the section “New Issues Identified” with the status “In Progress”. Since this report is a snapshot and issues being worked will change frequently, interested parties are advised to monitor the caGrid development Jira tracker at

<https://tracker.nci.nih.gov/browse/CAGRID>. Long running issues being worked include the following:

- [CAGRID-110](#)
 - Moving the integration tests to the containers specified by the NCI tech stack; specifically migrating to Tomcat 6
 - All tests have been moved to Tomcat 6, however one test remains in a failing state which cannot be readily fixed.
- [CAGRID-540](#)
 - The overarching SHA 2 implementation task
 - See the above information regarding the development grid.
- [CAGRID-161](#)
 - Fixing build problems with spaces in the file system path
 - Simple workarounds exist

Critical Risks or External Dependencies

- Since the caGrid development project has been de-scoped and scaled down, there is a strong possibility that the release of a version of caGrid which supports SHA 2 will not be available until after the end of this calendar year. Currently, caGrid is operating under an exemption from the NIST mandate to move all federal systems to SHA 2 cryptography, but this exemption runs out at the end of the calendar year.
 - Another exemption will need to be implemented in lieu of a complete SHA 2 support release.
 - The 1.5 development grid has been deployed, and a public community announcement should be made soon so that users can begin testing and commenting on its correctness and functionality. Identifying any potential pain points for upgrades should be done as soon as practically possible.
- The de-scoped and scaled down development of caGrid will make it difficult to deliver new features that customers and users have requested in a timely manner.
 - This delay may cause them to abandon the grid entirely, or find alternative solutions to their use cases.
 - A mechanism for quicker support and feature addition releases could be researched and identified with the understanding that the only such changes made under this model wouldn't impact the deployment of the production grid, which requires significant coordination and advance scheduling.